

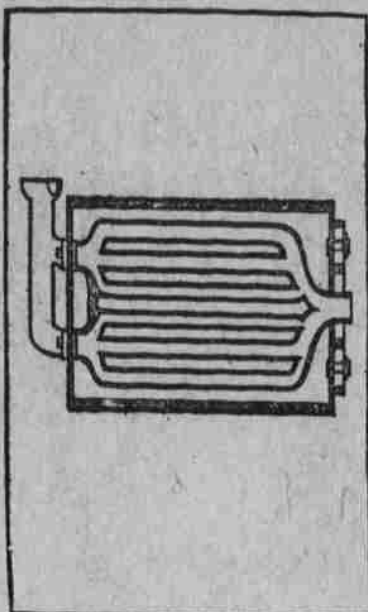
## SCIENCE AND INVENTION



### HEATER FOR AN AUTOMOBILE

Series of Pipes, Arranged Like a Grid-die, Keeps Car Warm by Distributing Exhaust.

By installing the heating apparatus invented by an Ohio man a motorist



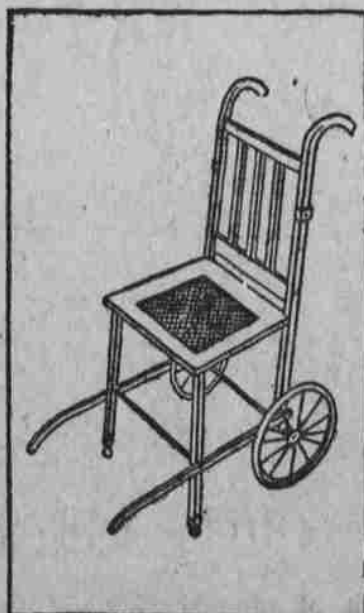
Automobile Heater.

may now keep his car as warm in winter as it is cool in summer. A series of pipes, like a grid-die, is positioned under the body of the car, preferably horizontally. These form a radiator which reaches to every corner of the seating portion of the vehicle and distributes the heat thoroughly. This radiator is connected with the exhaust pipe of the engine and the exhaust of heated air that would otherwise pass out the back wasted is put to good use keeping the occupants of the car cozy warm in the colder days of automobilism. Any motorist knows how hot his muffler grows from the accumulation of exhaust that is held in that receptacle for a while to prevent too noisy an escape. He can easily understand, then, how nicely that same amount of heat would keep the temperature up in his car.

### INVALID'S CHAIR IS USEFUL

Designed by New York Man With View of Carrying It Up and Down Stairs—Lighter Than Others.

Most invalids' chairs are of a cumbersome type and when the oc-



Invalid's Chair.

cupant is to be transported up and down stairs he and the chair must be carried separately. A New York man has designed a chair which is

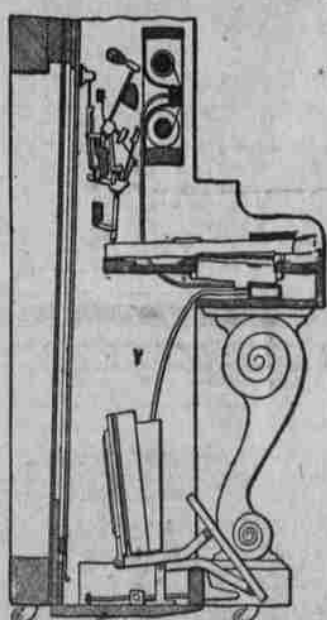
not only much lighter than the average, but has appliances to assist in moving it up and down stairs. The front legs of this chair are equipped with castors and the short back legs are mounted on wheels. The back rises into two curved handles and a pair of supplemental handles are pivoted to the rear legs. Ordinarily these supplemental handles are fastened in a vertical position, but when the invalid is to be taken from one floor to another they are let down in a horizontal position and held firmly there by catches on the front legs of the chair. This provides supporting means at both back and front and greatly facilitates the transportation of the chair.

### PIANO PLAYER IS PNEUMATIC

One Object of Invention Is to Provide Device Which Will Be Strong and Durable in Its Action.

In referring to an invention recently patented by William G. MacArthur of New York, the Scientific American says:

This invention relates to an improved piano-player, an accompanying illustration of which shows it in a vertical section through a piano with the attachment thereon. An object of the invention is to provide a device which will be inexpensive to manufacture, strong, durable and both quick and positive in its action. A further object is the provision of a piano playing attachment in which the pneumatic portion of operating mechanism is attached directly to the keys, whereby a great saving in space



Pneumatic Piano Player.

and more positive and sensitive movement is obtained.

### University Aviation.

Aviation as a science has been recognized by one of the most dignified educational bodies of Europe, the university of Paris, and an aerotechnical institute has been established and is now just beginning work under its direction. This was made possible by an endowment of \$100,000 by Henry Deutsch, and an annual income of \$3,000.

The new institute is on the plateau of St. Cyr, near Versailles, and on the edge of the maneuver field of the military school. It consists of a large group of buildings and laboratories, with a track for launching gliders, and all the apparatus that has so far been invented for the study of meteorology, air currents, air resistance and the many problems connected with flight which are now so imperfectly understood.

### Curious Luminous Lamps.

In France, by the cultivation of luminous marine microbes in a liquid medium contained in little glass vessels, there have been produced some of the most curious lamps imaginable. If a few of these living lamps are arranged about a bust in a dark room, the bust is made plainly visible and photographs may be taken of it.

### THREE GOOD CREOLE SALADS

They Originated in the Southern States and All of Them Are Delicious.

**Alabama Salad**—Two onions, four cucumbers, three-quarters of a cupful of sour cream, one-quarter of a cupful of vinegar. Chop onions very fine. Pare and slice the cucumbers, sprinkle with salt, cover with ice water and let stand one hour. Drain; add onions, sprinkle with cayenne and dress with cream and vinegar mixed together. Serve on lettuce leaves.

**Southern Potato Salad**—Cut six potatoes into uniform cubes. Cover the cubes with boiling water; add two slices of onion, 1½ teaspoonfuls of salt and cook until potatoes are tender. Drain, chill and cover with French dressing; when cold serve on shredded lettuce.

**Southern Salad**—One cupful of cold cooked chicken, one cupful of boiled potatoes, one tablespoonful of finely minced onion, one cupful of celery cut in very fine dice or minced, one-half cupful of red or green pepper, one-half cupful of French dressing. Mix all the ingredients and marinate with French dressing. Drain, chill them, arrange on crisp lettuce leaves and garnish with mayonnaise dressing.—Good Housekeeping Magazine.



Never cover the fish skillet. It softens the flesh and will cause a big fish to crumble.

Salt will curdle milk. Hence, in preparing milk porridge, gravies, etc., the salt should not be added until the dish is prepared.

Never wash marble with soap and water. Use ammonia in the water if you would have a highly polished, clean surface after your trouble.

To keep white silk gloves from turning yellow with the necessarily frequent washing, wash in cool water with white soap and put bluing in the rinse water.

If in making a chocolate filling, or any boiled filling for cakes, it boils a little too long and hardens too much, stir in a little milk without boiling again.

To whiten clothes and keep them in that condition, add a spoonful of borax to the last rinsing water. The borax should be dissolved in very hot water before adding to the rinsing water.

To the woman with a family of small children the question of keeping the woodwork free from finger marks is difficult indeed. Dip a cloth in paraffin oil and rub the spots. They will immediately disappear.

### With the Cook.

It is said that a little dry mustard blended with the butter which is used in spreading ham sandwiches gives them a very delicious flavor.

Cress salad always tastes good with corned beef hash, says an exchange. Hash is a good luncheon dish, there being times when it is relished as well as turkey or chicken; the secret lies in having a good, tender piece of meat to begin with and then seasoning the mixture just right and having it just moist enough.

In making baked or boiled custard scald the amount of milk to be used and set aside until cool, then make your custard and bake it as usual. It will be perfectly smooth.

### Mulled Buttermilk.

Make sure that the buttermilk is fresh. Put a pint of the milk in a double boiler and stir it constantly until it reaches the boiling point. Add the yolk of an egg beaten to a stiff froth and take from the fire immediately. This will be found an excellent drink for feverish patients, allaying both thirst and hunger.

### Fixing up the Settlement.

"Well, we've divided up the money, the automobiles and the dogs equitably," said the divorce lawyer.

"Who gets the custody of the child?" asked the attorneys for the other side.

"Is there a child? My client never said anything to me about that!"—Washington Herald.

### A Turning Worm.

"See that measuring worm crawling up my skirt!" cried Mrs. Bjenks. "That's a sign I'm going to have a new dress."

"Well, let him make it for you," growled Mr. Bjenks. "And while he's about it, have him send a hookworm to do you up the back. I'm tired of the job."—Liverpool Mercury.

### The Way of It.

The street car was held up while the coal was deposited in a cellar.

After fifteen minutes the irate old gentleman could stand it no longer. "Great guns!" he exploded to the motorman. "This is the worst I've seen yet in this town! I suppose they couldn't make that wagon six inches shorter, now, could they?"

"If they did, I reckon it wouldn't hold the eighteen hundred pounds of coal they're giving us for a ton these days!"

### A Dangerous Drink.

Judge Ben B. Lindsey, the noted reformer of Denver, was lunching one day—it was very warm—when a politician paused beside his table.

"Judge," said the politician, "I see you're drinkin' hot cawfee. That's a heatin' drink."

"Yes," said Judge Lindsey.

"Oh, yes. In this weather you want iced drinks, judge—sharp, iced drinks. Did you ever try iced gin and ginger ale?"

"No," said the judge, smiling, "but I've tried several fellows who have."

### The Danger of Beauty.

Elizabeth Marbury was talking at the Colony club about beauty doctors. "The papers and magazines are full of their advertisements," she said. "They must make a great deal of money."

"But, Miss Marbury," said a young woman lawyer, "I have heard that beauty treatments are dangerous."

"Well, you might call them dangerous in a way," Miss Marbury agreed. "I know, for example, a very rich widow of 62 years. She took a course of ten beauty treatments and last month married her boy chauffeur."

### The Natural Product.

The schoolmistress was examining her pupils before some visitors.

"Who knows what useful article is furnished for us by the elephant?" she asked.

"Ivory," was the prompt reply of nearly all.

"And what do we get from the whale?"

"Whalebone," answered several.

"Quite right. And what from the seal?"

"Sealing wax," replied Peter.—Ideas.

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